

FD Grooving Inserts

ZANHO Cutting Tools



FD08/10/12/14

Grooving Inserts

Feature

ZANHO **FD series**: Professional **large depth grooving inserts** with a specialized single-ended cantilever structure. Engineered for ultra-deep external circular and face grooving, these inserts

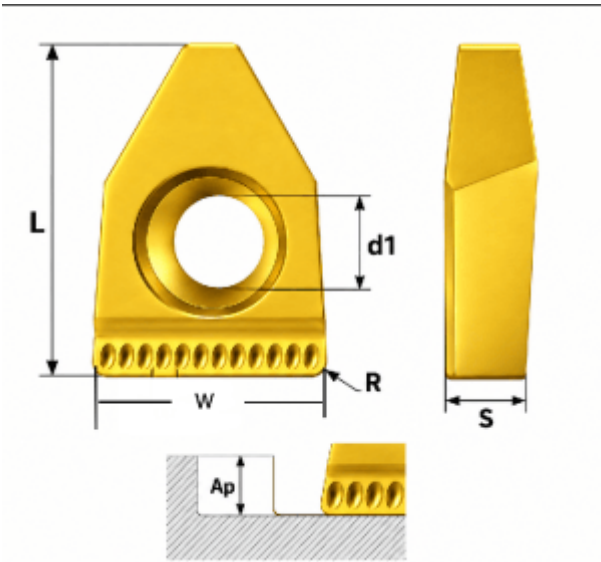
achieve a remarkable **22-32mm single-pass depth**. Featuring a reinforced body and multi-elliptical chipbreaker, the FD series delivers exceptional stability and chip control for heavy-duty deep slotting operations.

Descriptions

Technical Advantages

- **Extreme Depth of Cut:** Single-ended cantilever design allows for 22-32mm single-side cutting depth, far exceeding standard double-edged inserts.
- **Optimized Deep Slot Chipbreaker:** Multi-row elliptical arc chipbreakers facilitate mandatory chip curling at large depths and high feed rates.
- **Reinforced Tool Body:** Increased thickness enhances overall rigidity, effectively resisting heavy cutting forces and minimizing chatter risk.
- **Dedicated Toolholding:** Standardized bore positioning perfectly matches **MTEHR series** large-depth tool holders.
- **Durable Cutting Edge:** Negative chamfer reinforcement provides excellent impact resistance, suitable for interrupted cutting conditions.
- **Open Chip Flow:** Single-edge open geometry ensures smooth chip evacuation and prevents surface scratching in deep grooves.

FD Series Specifications & Dimensions



Model	Width W (mm)	Radius R (mm)	Max apmax (mm)	Thickness S (mm)	Height L (mm)
FD-08-R0.6	8.00	0.6	22	4.90	14.80
FD-10-R0.6	10.00	0.6	25	4.90	15.75

Model	Width W (mm)	Radius R (mm)	Max apmax (mm)	Thickness S (mm)	Height L (mm)
FD-12-R1.0	12.00	1.0	28	6.10	17.20
FD-14-R1.0	14.00	1.0	32	6.10	18.00

*Note: Single-edged design. Must be used with dedicated MTEHR tool holders. Not compatible with standard MGEHR cutoff bars.